



1 November 2007

Lean Six Sigma (LSS) SMR OVERVIEW

- **Eight Strategic-level High Impact Core Value Streams (HICVS)**
 - 168 projects/events reported to date
 - 108 completed (4 projects completed in this report period)
 - 61 active (15 new projects in this report period)
- **Training Progress**
 - Senior Leader Training
 - 14 personnel completed Senior Leader training on 2 August (MCLB Albany)
 - 26 personnel completed Senior Leader training on 18 September (MARFORRES)
 - 25 personnel completed Senior Leader training on 26 September (MCAS Iwakuni)
 - 7 additional Senior Leader courses are tentatively scheduled during remainder of CY07
 - Black Belt Training
 - 15 personnel currently taking Black Belt training, completion scheduled for 9 November 2007
 - Two Black Belt courses will be completed during remainder of CY07
 - 3 Black Belt classes are scheduled for FY08 (2 on the East coast; 1 on the West Coast)
 - Green Belt Training
 - 1 Green Belt course is scheduled in Dec 07
 - Scheduling of additional Green Belt courses during CY08 are in progress



Lean Six Sigma Training Status

Command:	JUL		AUG		SEP	
CHAMPION TRAINING (Goal is 100%)	# of People	% of Goal	# of People	% of Goal	# of People	% of Goal
Principal Direct Reports and Deputies (Total # Trained / % of Goal)	45	92%	45	92%	45	92%
SES/Flag and General Officers (less above) (Total # Trained / % of Goal)	12	100%	12	100%	12	100%
O-6 / GS-15 (Total # Trained / % of Goal)	388	74%	402	76%	408	78%
GREEN BELTS (Goal=5%)	(Goal) 300		(Goal) 300		(Goal) 300	
Trained -Total # Green Belts Trained (# / % of Goal)	170	57%	170	57%	170	57%
Ready For Tasking -Total # Green Belts Active (# / as a % of Green Belts Available)	170	100%	170	100%	166	98%
Utilized - Total # Green Belts Assigned to Projects (# / as a % Green Belts Active)	49	29%	49	29%	56	34%
BLACK BELTS (Goal=1%)	(Goal) 50		(Goal) 50		(Goal) 50	
Trained - Total # Black Belts Trained (# / % of Goal)	35	70%	35	70%	35	70%
Ready For Tasking - Total # Black Belts Active (# / as a % of Black Belts Available)	35	100%	35	100%	35	100%
Utilized - Total # Black Belts Assigned to Projects (# / as a % Black Belts Active)	86	246%	86	246%	91	260%
PROJECTS						
Total # of Projects (Work in Progress)	53		54		61	
Total # of Projects Completed (since inception date of 1 Jan 06)	103		108		108	

Note: Numbers are cumulative.



Results (Cumulative)

HICVS/RESULTS	PROJECTS STARTED (146)	PROJECTS COMPLETED (98)	D	M	A	I	C
Capability Development	9	4	2	0	1	2	0
Urgent Universal Needs (UUNS) improved delivery time to the field through better visibility of UUNS status to the customer. • 58 fewer days in cycle time (65% Reduction); Increased visibility of UUNS moving through system; 30% reduction in defects (rejects/rework) (Includes 2 Rapid Improvement Events (RIEs) completed in Apr-07 but not closed out at that time.) • 2 additional RIE projects have been identified							
Human Resource Development (No completed projects)	4	0	1	2	0	0	1
Installation Management	19	6	2	2	0	5	4
•USMC I&L —Reduced contracting cycle time and improved customer satisfaction. Personnel (20) were trained to increase their knowledge base regarding contracting and a contracting liaison officer will be stationed in HQMC/Annex. —I&L (LP) -- Modernization of administrative processes using MCEITS Virtual Work Environment (VWE) resulted in approximate savings of 3 hours each work day for all 6 sections of LP for producing the Morning Report. •MCAS Iwakuni improved transient housekeeping sufficiently to allow services to permanent party residents. •MCB Hawaii (Kaneohe Bay) reduced cellular devices by 63% and associated costs by 72%. •MCB Hawaii reduced check-in process time (per individual) by 40% (155 minutes to 93 minutes) and check-out process time by 86% (380 minutes to 55 minutes). •MCAF Hawaii reduced check-in process time (per individual) by 40% (5 to 3 days) and process steps by 12% (26 to 23).							
Aviation	53 (+1 CANCELLED)	46	4	2	0	1	0
Improvements in Aviation maintenance utilizing LSS/TOC (Theory of Constraints) are still focused on the shop floor. •YUMA: Engine repair reduced process steps by 33% and time by 39%; Hydraulic repair time: reduced process steps by 25% and time by 38% •FORT WORTH: FLIR POD repair reduced time to reliable replenishment from 52 to 10 days •CHERRY POINT: Parts purchasing reduced process steps 48%; turnaround time 71%; and rework 32%; Circuit card assemblies allow more in-shop repair reducing expenditures 36%. Reduced tool inventory by 21%. •BEAUFORT: Shop processes improved time to reliably replenish by 50%; reduced safety hazards by 50%; increased visual management by 300% •STEWART ANGB: Inspection process reduced steps 47%; lead time 63%; touch time 20%; and travel time 50%; Repair of APG process reduced time to reliably replenish by 33% and 19% reduction in travel time. •FUTENMA: Engine repair and test reduced process steps 65% and floor space requirements 12%. MALS-36: I-level engine repair shop reduced Time to Reliably Replenish (TRR) from 128 to 8 days, process steps from 160 to 63 (61%) and tool inventory from 801 to 262 tools. •New River: Standardized processes and reduced wasted movement and tool storage. Reduced TRR from 77 to 45 days. MALS-26: I-level Power Plants Shop Time to Reliably Replenish (TRR) from 77 to 45 days. Reduced distance traveled from 776 to 532 feet. •Kaneohe Bay: check-n process from 5 days to 1 day.							



Results (Cumulative (cont'd))

HICVS/RESULTS	PROJECTS STARTED (146)	PROJECTS COMPLETED (98)	D	M	A	I	C
Total Life Cycle Management (GROUND)	79 (+5 CANCELLED)	51	14	1	2	2	9
<ul style="list-style-type: none"> • MCLC: Reduced anticipated manpower needs in selected processes from 200 to 104 • MAINTENANCE DEPOT BARSTOW: Events ensuring more efficient maintenance processes, better organized workcenters, and shorter repair cycles have saved/avoided \$1.32M on AAV FY06 line; anticipate savings/avoidance of \$5M on FY07 line • 39 KAIZEN events completed as part of organizational realignment that could reduce the need for a projected 200 additional FTEs. • Barstow AAV Line reduced rework to 0% and clarified inspection and performance criteria. 							
Resource Allocation	2	1	0	0	0	1	0
<ul style="list-style-type: none"> • HENDERSON HALL: Reduced cycle time for Battalion Spend Plan from 22 weeks to 2 weeks by reducing process steps, physical movement, standardizing forms, and reducing rework. 							
Acquisition (No completed projects)	1	0	1	0	0	0	0
Information Technology (No completed projects)	2	0	2	0	0	0	0



Summary of New Projects – (since last report)

HICVS / PROJECT OBJECTIVES	EXPECTED BENEFIT	START / COMPLETE (Est)
Installation Management		
➤Reduction of work request cycle times in Installation Personnel Administration Center (IPAC). (29 Palms)	<u>BENEFIT</u> : Reduce cost, improve cycle time, improve customer satisfaction.	May '07 / Est Oct '07
➤Reduction of maintenance cost at Desert Winds Golf Course. (29 Palms)	<u>BENEFIT</u> : Increase effectiveness and efficiency with operation of Desert Winds Golf Course.	Aug '07 / TBD
➤Reduce number of days to process work requests for work outside of Public Works. (29 Palms)	<u>BENEFIT</u> : Local Impact. Reduce cycle times and increase customer satisfaction.	Jan '07 / TBD
➤Improvement of processes concerning Military Interdepartmental Purchase Requests (MIPR). (MCAS Yuma)	<u>BENEFIT</u> : Reduce cycle time and improve customer notification and communication for the MIPR approval process.	Sep '07 / TBD
➤Reduction of cycle and flow time of the Program Management (PM) process. (MCB Camp Pendleton)	<u>BENEFIT</u> : Develop a streamlined and well defined automated process. Increase accuracy rate of complete packages by 95%. Decrease turnaround timeframe to >5 days.	Jul '07 / Est Nov'07
➤Improve the timeliness of administratively processing Marines reporting aboard MCB CamPen. (MCB Camp Pendleton)	<u>BENEFIT</u> : Decrease both time of processing an inbound Marine and number of administrative errors which require rework or result in incorrect payment to the Marine by at least 20%.	May '07 / Est Oct '07
➤Improve the use of systems integration to more effectively process personnel administration requirements. (MCB Camp Pendleton)	<u>BENEFIT</u> : Decrease cycle time and errors reported on and MCATs. Reduce cycle time by at least 20%.	May '07 / Est Oct '07



Summary of New Projects – (since last report) (cont'd)

HICVS / PROJECT OBJECTIVES	EXPECTED BENEFIT	START / COMPLETE (Est)
Aviation		
➤ Conduct a VSA on work center 450 to identify interdependencies, waste, and other opportunities for improvement. (MCAS Cherry Point (MALS-14))	<u>BENEFIT</u> : Increase the reliability and decrease the time to successfully test and return an engine.	Jul '07/TBD
➤ Conduct a VSA for W/C 670 which includes 67A, 67B, 67C, and 67D. The VSA will focus on the internal flow of documentation and gear through each individual W/C in 670. (MCAS Cherry Point (MALS-14))	<u>BENEFIT</u> : Reduction in time and increase in quality by streamlining the process and reducing rework.	Jul '07/TBD
➤ Establish standardized storage of engines in work and work cell layout. (MCAS New River (MALS-26))	<u>BENEFIT</u> : Increased efficiency and improved safety.	Aug '07/TBD
➤ Determine value of Point of Use Supply in the 600 division. (MCAS New River (MALS-26))	<u>BENEFIT</u> : Decreased process cycle time and reduction in wasted movement.	Aug '07/TBD
➤ Correct poor layout and time management procedures in I-level Power Plants shop. (MCAS New River (MALS-26))	<u>BENEFIT</u> : Reduced number of process steps, improved shop layout, improved process flow, and reduced TRR.	Jul '07/Aug '07 (Completed)
➤ Improve layout and storage procedures in I-level ALSS work center. (MCAS New River (MALS-26))	<u>BENEFIT</u> : Reduced number of process steps, improved shop layout, improved process flow, and reduced TRR.	Jul '07/TBD
Total Life Cycle Management (GROUND)		
➤ Reduce average time to run the Dynamic Equipment Repair Optimization (DERO) Model from 2 months to 1 day. Ensure output is understandable useable and valid. Develop Re-Accreditation Plan.	<u>BENEFIT</u> : Time and Quality. Streamline the process and reduce rework.	Sep '07 / TBD
➤ Review AAV Critical Chain. Review critical chain to reflect changes due to process improvement efforts. Provide an accurate critical chain to enable buffer management.	<u>BENEFIT</u> : Time and Quality. Streamline the process and reduce rework.	Aug '07/TBD



Summary of Completed Projects (since last report)



HICVS / PROJECT OBJECTIVE	RESULT	START / COMPLETE
Installation Management		
<ul style="list-style-type: none"> ➤ Streamline Check in and Check out process. (Marine Corps Air Facility (MCAF) Hawaii) ➤ Modernization of administrative processes using MCEITS Virtual Work Environment (VWE)/Knowledge Management (KM). 	<p><u>RESULT:</u> Produced 12% reduction in steps (26 to 23) and time savings of 40% (5 to 3 days)</p> <p><u>RESULT:</u> The LP Virtual Work Environment (VWE) Project resulted in an approximate savings of 3 hours each work day for all 6 sections of LP for producing the Morning Report. All sections can simultaneously work on a document, allowing the savings in coordination. It also provides a significant benchmark in reviewing other admin work processes for redevelopment.</p>	<p>May '07 / Aug '07</p> <p>Jul '07 / Aug '07</p>
Aviation		
<ul style="list-style-type: none"> ➤ Design a Test and Repair Process at Intermediate-level Power Plants Shop that will reliably achieve the TOC Design TRR of 8 days. (MCAS Futenma (MALS-36)) 	<p><u>RESULT:</u> Reduced Time to Reliably Replenish (TRR) from 128 to 8 days, reduced process steps from 160 to 63 (61%), and reduced tool inventory from 801 to 262 tools.</p>	<p>Mar '07/ Apr '07</p>
<ul style="list-style-type: none"> ➤ Reduce process steps, improve shop layout, improve process flow, reduce TRR at I-level Power Plants. (MCAS New River (MALS-26)) 	<p><u>RESULT:</u> Reduced TRR from 77 to 45 days. Reduced distance traveled from 776 to 532 feet.</p>	<p>Jul '07 / Aug '07</p>



Backups



Legend

Green Lettering (on Back-up slides)	Indicates new or updated information.
	Projects reported for the first time, including short-duration projects or events that are already complete.
MOVED	Projects that have been moved from one HICVS to another.
	The tan color separates HICVS and indicates rollup of selected status information.
Project Numbers	Project numbers are assigned as they are added to their respective HICVS. Projects cancelled (and their project #) will fall off the briefing in subsequent reports. Projects in the Capability Development HICVS are numbered to reflect project/sub-project relationships.
	Green Belt projects led by Executive-level personnel.

Minor Delay/Changes to
Schedule

Projects with tollgates in yellow indicate minor delays/changes to the project/event schedule. On our report, this highlights a delay of one month.

Obstacle encountered
Major slippage of schedule

Projects with tollgates in red indicate a major delay or slippage in schedule. On our report, this highlights a delay of two or more months.

Project Complete

Projects that are complete are marked in dark green. For this SMR, all projects that have been completed are being reported. For future reports, completed projects will be reported for two consecutive reports and then removed from the report.

HICVS Status	Not Started	No Changes to Schedule	Minor Delay/Changes to Schedule	Obstacle encountered Major slippage of schedule	Project Complete
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CAPABILITY DEVELOPMENT PROJECTS


HCV Number	High Impact Core Value Stream	Sponsor	Objectives	Expected Benefits/Metric	Associated Projects	Investment '000 (Dollar's only)	Black/Green Belt Assigned	Start Date	Define Tollgate Date	Measure Tollgate Date	Analyze Tollgate Date	Improve Tollgate Date	Control Tollgate Date	Verification Tollgate Date	Completed (Cumulative)	Status/Results
1	CAPABILITY DEVELOPMENT	DC, CD&I	Develop, field, and sustain the highest quality of MAGTF capabilities.	Impact direct support to warfighters, operational preparation for deployment, readiness and deployment.	All Urgent Universal Needs Statements (UUNS) projects (1.1 through 1.3 and 7.1 are interrelated.		1 GB 0 BB	2			1	2			4	Map HICVS. Identify performance gaps. Develop a plan to close performance gaps by using LSS. Prioritize list of specific projects. Train/assign proper mix of black/green belts to conduct projects. Charter, conduct, control projects. Replicate as appropriate. Report results.
	1.1.1 (UUNS RIE - Automation)	CD&I	RIE to provide faster delivery of improvements to the field, better visibility of UUNS status to customer.	USMC-wide. Reduce cycle time, increase visibility within process.	Projects 1.1 through 1.3, 7.1	0	1 MBB 1 BB	Aug-06	Sep-06		Jul-07				Est. Sep-07	Virtual UUNS (vUUNS) has been developed, and is in training period now. Going live 27 Sep 07.
	1.2.3 UUNS Close-out	CD&I	RIE intended to standardize the UUNS close-out Process	USMC-wide. Reduce cycle time		0	1 BB 1 GB	Jul-07							Recommendations approved with adjustments in progress, implementation to begin next month.	
	1.3 JUONS	CD&I	Examine potential opportunities to provide faster delivery of improvements to the field and better visibility of Joint Urgent Operational Needs Statement (JUONS) status to customer.	Joint scope. Reduce cycle time.		0	1 MBB 1-2 BB	TBD							Potential project - not started yet.	
	1.4 (T2P2 - Training Time)	TECOM	LSS BB project to allow reduction in time-to-train from Boot Camp graduation to first MOS school for non-infantry MOS. Reduction will result in more Marines available for the operating forces.	USMC-wide scope. Reduced cycle time/rework. Reduced time awaiting training. Improvement in availability. Greater visibility into process.		25	1 MBB 1 BB(T)	Dec-06	Mar-07	Jul-07					Est. May-08	This is a T2P2 project that is part of the Marine Life Cycle Value Stream. Completion date adjusted to May-08 due to length of pilot developed in Improve phase (2-3 months).
	1.5 MCJROTC	TECOM	Reduction in program overhead & cost of MCJROTC Materiel.	Program level impact.		0	1MBB 1BB	Mar-07								Process mapping est. Nov 07 per Director, USMC JROTC.

All information is as of 30 September 2007.

HICVS Status	Not Started	No Changes to Schedule	Minor Delay/Changes to Schedule	Obstacle encountered Major slippage of schedule	Project Complete
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HUMAN RESOURCES PROJECTS

HICV Number	High Impact Core Value Stream	Sponsor	Objectives	Expected Benefits /Metric	Associated Projects	Investment '000 (Dollars only)	Black/Green Belt Assigned	Start Date	Define Tollgate Date	Measure Tollgate Date	Analyze Tollgate Date	Improve Tollgate Date	Control Tollgate Date	Verification Tollgate Date	Completed (Cumulative)	Status/Results
2	HUMAN RESOURCE DEVELOPMENT	DCs, M&RA, P&R, AND CD&I	Furnish the Marine Corps with a quality civilian workforce of maximum efficiency, productivity, and stability to carry out the mission.	Impact direct support to warfighters, operational preparation for deployment, readiness and deployment.	Two underway: HR Resources (NCR); and similar project at MCB Quantico		1 GB 0 BB		1	2			1		0	Map HICVS. Identify performance gaps. Develop a plan to close performance gaps by using LSS. Prioritize list of specific projects. Train/assign proper mix of black/green belts to conduct projects. Charter, conduct, control projects. Replicate as appropriate. Report results.
2.1		M&RA and P&R (Partner with ASN)	Improved cycle time for hiring civilians Marines. Reduce average number of vacancies.	DoN level impact. Will result in fewer vacancies on average and reduced cycle time.	2.2	0	1 MBB 1 BB	Feb-07	Mar-07						Long Term	DoN level effort in Define phase. Efforts in 2.1 and 2.2 will merge for an enterprise effort. Initial project starts in national capital region, partnering with Portsmouth HRSC. Intend to replicate across USMC and other HRSC regions. Joint DoN and MC Value Stream Mapping Session conducted 17 & 18 May 2007. Results are being used in a DoD Standardized Recruitment Effort. Members of the HR community are meeting 14 Sep to discuss this initiative.
2.2		MCB, Quantico	Reduced cycle time in civilian personnel administration.	Local impact. Will reduce administrative cycle time within installation.	2.1	0	1 MBB 1 BB	Oct-06	Jan-07	Jul-07						MCB Quantico effort in Measure phase. Efforts in 2.1 and 2.2 will merge for an enterprise effort when appropriate.
2.3		M&RA	Reduced cycle time for military awards issuance.	USMC wide impact. Will reduce administrative cycle time within installation.		0	1 MBB 1 BB	Apr-07	Jun-07							Introductory meeting conducted in Apr-07. Value Stream Analysis/RIE conducted 8-10 May 2007. DM Tollgate conducted 13 June 07. Currently validating quick win improvements for inclusion in iAPS and analyzing historical award data to identify additional improvements.
 2.4		Director, MCBE0	Improve quality and cycle time for NSPS performance management.	Local impact. Affects USMC Business Enterprise Office and regional CPI teams.		0	1 BB 1 GB	Jun-07				Jul-07		Est. Nov-07		Executive/SES Green Belt Project. RIE. Develop performance management process using SharePoint to accomplish NSPS goals within geographically distributed workforce. RIE completed 22 Jun-07.

5-Nov-07

All information is as of 30 September 2007.

HICVS Status	Not Started	No Changes to Schedule	Minor Delay/Changes to Schedule	Obstacle encountered Major slippage of schedule	Project Complete
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INSTALLATION MANAGEMENT

HICV Number	High Impact Core Value Stream	Sponsor	Objectives	Expected Benefits /Metric	Associated Projects	Investment '000 (Dollars only)	Black/Green Belt Assigned	Start Date	Define Tollgate Date	Measure Tollgate Date	Analyze Tollgate Date	Improve Tollgate Date	Control Tollgate Date	Verification Tollgate Date	Completed (Cumulative)	Status/Results	
3	INSTALLATION MANAGEMENT	DC, I&L	Improve overall quality of installation support services and property through the improved process cycle time of service delivery, decision making; overall quality of infrastructure through improved speed of MilCon planning and construction, and prioritization of sustainment and repairs.	Impact direct support to warfighters, operational preparation for deployment, readiness and deployment.		63 GB 18 BB	2	0	2	0	5	4		6	Map HICVS. Identify performance gaps. Develop a plan to close performance gaps by using LSS. Prioritize list of specific projects. Train/assign proper mix of black/green belts to conduct projects. Charter, conduct, control projects. Replicate as appropriate. Report results.		
	3.1	CO, MCAS Iwakuni	Optimize billeting process.	Local impact. Reduce workload by reducing excessive organizational layering.		0	1 GB	Oct-06	Jan-07		Mar-07			Est. Oct-07	Housing reorganization will be approved with implementation beginning in Mar-07. Complete implementation is expected to be six months (or more) with a new warehouse being completed at/near the six-month mark. Reorganization includes the reduction of 2 Contracted positions (considered excess) and re-alignment of personnel to streamline the Transient operation.		
	3.3	MCCS Business Operations Director for CO, MCAS Iwakuni	Reduce merchandise replenishment cycle time.	Local impact. Reduce inventory carrying costs.		0	1 BB(T) 1 GB	Sep-06		Jun-07						This GB project will roll over to a BB project due to scope issues. The priority will be placed on supply chain functions and technology. Focusing on process improvements to better enable a synchronized, smooth-flowing merchandise stream. The entire MCCS organization will be affected and cost savings will be realized while better serving the community.	
	3.4	Director, Marine Corps Contracting	Improve non weapon system contracting by improving quality and reducing cycle time of contracting process.	Enterprise impact. Reduced cycle time and improved quality of process, with emphasis on requirements documentation.		0	1 MBB 1 BB(T) 1 GB	May-07						Long Term	The BB originally assigned to project had to be replaced when unexpectedly left Federal Service. Project expected to start upon identification of new BB.		
	3.6	RCO-SW	Reduce cycle time from customer planning to development to development of the Acquisition Plan (ready to bid) within RCO-SW.	Local impact. Reduction in number of acquisitions exceeding proscribed Program Acquisition Lead Time.		0	1 BB 1 GB	Feb-07	Mar-07	May-07	Jul-07	Aug-07		Est. Oct-07	Currently working in Control Phase. Estimate completion in Oct-07.		
	3.7	Security Battalion Commander, MCB Camp Pendelton	To improve gate security access procedures.	Local impact. Decreased cycle time, decreased variation in gate access process.		0	1 BB	Apr-07		May-07	Jun-07	Sep-07		Est. Oct-07			
	3.8	MCI West	Military In/Out Processing at Joint Reception Center.	Local impact. Reduced cycle time for military in/out processing and increased effectiveness of warfighter support.		0	1 GB	Apr-07	May-07	Jul-07	Aug-07		Sep-07	Est. Oct-07			
	3.9	DC, I&L, LP	Modernization of administrative processes using MCEITS Virtual Work Environment (VWE)/Knowledge Management (KM).	USMC Wide - reduce administrative process cycle time (manpower) savings.		0	1 BB 1 GB	Jul-07							Aug-07	The LP Virtual Work Environment (VWE) Project resulted in an approximate savings of 3 hours each work day for all 6 sections of LP for producing the Morning Report. All sections can simultaneously work on a document, allowing the savings in coordination. It also provides a significant benchmark in reviewing other admin work processes for redevelopment.	
	3.12	MCBH	Streamline Marine Corps Air Facility (MCAF) Hawaii Check in and Check out process.	Local Impact. Expedite process cycle time		0	1 GB	May-07	Jun-07					Aug-07	CO MCAF approved new process. Produced 12% reduction in steps (26 to 23) and time savings of 40% (5 to 3 days).		

HICVS Status	Not Started	No Changes to Schedule	Minor Delay/Changes to Schedule	Obstacle encountered Major slippage of schedule	Project Complete
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INSTALLATION MANAGEMENT

HICV Number	High Impact Core Value Stream	Sponsor	Objectives	Expected Benefits /Metric	Associated Projects	Investment '000 (Dollars only)	Black/Green Belt Assigned	Start Date	Define Tollgate Date	Measure Tollgate Date	Analyze Tollgate Date	Improve Tollgate Date	Control Tollgate Date	Verification Tollgate Date	Completed (Cumulative)	Status/Results
3	INSTALLATION MANAGEMENT	DC, I&L	Improve overall quality of installation support services and property through the improved process cycle time of service delivery, decision making; overall quality of infrastructure through improved speed of MilCon planning and construction, and prioritization of sustainment and repairs.	Impact direct support to warfighters, operational preparation for deployment, readiness and deployment.		63 GB 18 BB	2	0	2	0	5	4		6		Map HICVS. Identify performance gaps. Develop a plan to close performance gaps by using LSS. Prioritize list of specific projects. Train/assign proper mix of black/green belts to conduct projects. Charter, conduct, control projects. Replicate as appropriate. Report results.
	3.13	29 Palms	Reduction of work request cycle times in IPAC.	Local Impact. Increased customer satisfaction and cost reduction.		0	1 BB	May-07		Aug-07	Aug-07	Sep-07		Est Oct-07		Reduce cost, improve cycle time, improve customer satisfaction. Delays due to 101 days of summer leave/TAD.
	3.14	29 Palms	Reduction of maintenance cost at 29P Desert Winds Golf Course.	Local Impact. Increased Effectiveness and Efficiency with Operation of Desert Winds Golf Course.		0	1 BB	Aug-07	Sep-07	Est. Oct-07	Est. Nov-07	Est Dec-07				Drafting the Charter.
	3.15	29 Palms	Reduce number of days to process work requests for work outside of PWS.	Local Impact. Reduce Cycle times and increase customer satisfaction.		0	1 GB	Jan-07		Feb-07	Mar-07	Apr-07	Aug-07			CG has requested for BPO to report out and will finalize report within 3-4 weeks.
	3.16	MCAS Yuma	Military Interdepartmental Purchase Requests (MIPR).	Reduce cycle time and improve customer notification and communication for the MIPR approval process.		0	1 GB	Sep-07								RIE.
	3.17	MCB Camp Pendleton	To Reduce Cycle and Flow time of the Program Management (PM) process.	Develop a streamlined and well defined automated process. Increase accuracy rate of complete packages by 95%. Decrease turnaround timeframe to >5 days.		0	1 BB	Jul-07		Aug-07					Est. Nov-07	
	3.18	MCB Camp Pendleton	Improve the timeliness of administratively processing Marines reporting aboard MCB CampPen.	Decrease both time of processing an inbound Marine and number of administrative errors which require rework or result in incorrect payment to the Marine by at least 20%.		0	1 BB	May-07		Jul-07	Aug-07	Sep-07			Est Oct-07	
	3.19	MCB Camp Pendleton	Improve the use of systems integration to more effectively process personnel administration requirements.	Decrease cycle time and errors reported on and MCATs. Reduce cycle time by at least 20%.		0	1 BB	May-07		Jul-07	Aug-07	Sep-07			Est Oct-07	

HICVS Status	Not Started	No Changes to Schedule	Minor Delay/Changes to Schedule	Obstacle encountered Major slippage of schedule	Project Complete
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MLCM-AIR SUPPORT PROJECTS

HCY Number	High Impact Core Value Stream	Sponsor	Objectives	Expected Benefits Metric	Associated Projects	Investment '000 (Dollars only)	Black/Green Belt Assigned	Start Date	Define Tollgate Date	Measure Tollgate Date	Analyze Tollgate Date	Improve Tollgate Date	Control Tollgate Date	Verification Tollgate Date	Completed (Cumulative)	Status/Results
4	Aviation MLCM	DC, AVIATION	Improve the overall quality and speed in the sustainment of aircraft and supporting equipment to reduce repair cycles for critical equipment to the operating forces.	Impact direct support to warfighters, operational preparation for deployment, readiness and deployment.		14 GB 0 BB	1	3	2		1				46	CPI/LSS events in MALS associated with NAE Airspeed. Many are rapid improvement events. Examples of benefits include: reduction in process time of nearly 40% in engine and Hydraulic repair times and a 45% improvement in process time in other repairs by reducing duplicate efforts. The MALS are also institutionalizing project replication through monthly VTC's and periodic conferences.
4.35		Aviation Materiel Life Cycle Management (MLCM)	Improved readiness, cycle time, and reduced costs. Scope: About \$4.6B of "green dollars" (including military pay for 46,000 Marines) is spent annually to sustain, house, and deploy Marine Corps aviation logistics resources. MAW prototypes to be replicated across other regions.	Local Impact. Streamline the flow of stock and receipts in Aviation Supply Department to minimize time required to sort and process materiel. (MALS-11, MCAS Miramar)	0	2 BB 1 GB	Feb-07			Mar-07						RIE. In Improve Phase. Results pending completion.
4.38				Local Impact. Design a Test and Repair Process at Intermediate-level Power Plants Shop that will reliably achieve the TOC Design TRR of 8 days. (MALS-36, MCAS Futenma)	0	2 BB 1 GB	Mar-07			Apr-07					Apr-07	Complete. Reduced TRR from 128 to 8 days, reduced process steps from 160 to 63 (61%), and reduced tool inventory from 801 to 262 tools.
4.39				Local Impact. Reduce steps and time associated with engine repair and test processes within the Intermediate-level Power Plants shop. (MALS-36 (41Q/R), MCAS Futenma)	0	1 BB 1 GB	Apr-07									RIE. No results reported to date.
4.42				Local Impact. Perform a VSA on work center 450 to identify interdependencies, waste, and other opportunities for improvement to increase the reliability and decrease the time to successfully test and return an engine. MCAS Cherry Point (MALS-14)	0	1 BB 4 GB	Jul-07									RIE.
4.43				Local Impact. Conduct a VSA for W/C 670 which includes 67A, 67B, 67C, and 67D. The VSA will focus on the internal flow of documentation and gear through each individual W/C in 670. MCAS Cherry Point (MALS-14)	0	3 BB 2 GB	Jul-07									RIE.
4.44				Local Impact. Establish standardized storage of engines and work cell layout. MCAS New River (MALS-26)		1 BB 1 GB	Aug-07									RIE.
4.45				Local Impact. Determine value of Point of Use Supply in the 600 division. MCAS New River (MALS-26)		1 BB 1 GB	Aug-07									RIE.
4.46				Local Impact. Reduce process steps, improve shop layout, improve process flow, reduce TRR. (Power Plants, I-level), MCAS New River (MALS-26)		2 BB 2 GB	Jul-07			Aug-07					Aug-07	RIE. Reduced Time to Reliably Replenish (TRR) from 77 to 45 days. Reduced distance traveled from 776 to 532 feet.
4.47				Local Impact. Reduce process steps, improve shop layout, improve process flow, reduce TRR. (ALSS, I-level), MCAS New River (MALS-26)		1 BB 1 GB	Jul-07	Aug-07								RIE.

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TOTAL LIFE CYCLE MANAGEMENT PROJECTS

HICV Number	High Impact Core Value Stream	Sponsor	Objectives	Expected Benefits /Metric	Associated Projects	Investment '000 (Dollars only)	Black/Green Belt Assigned	Start Date	Define Tollgate Date	Measure Tollgate Date	Analyze Tollgate Date	Improve Tollgate Date	Control Tollgate Date	Verification Tollgate Date	Completed (Cumulative)	Status/Results
5	TOTAL LIFE CYCLE MANAGEMENT (GROUND) GroundSPEED	DC, I&L CG, MCLC	Improve the overall quality and speed in the sustainment of ground equipment to reduce repair cycles for critical equipment to the operating forces.	Impact direct support to warfighters, operational preparation for deployment, readiness and deployment.		50 GB 0 BB	8	8	1		5	7			51	Map HICVS. Identify performance gaps. Develop a plan to close performance gaps by using LSS. Prioritize list of specific projects. Train/assign proper mix of black/green belts to conduct projects. Charter, conduct, control projects. Replicate as appropriate. Report results. (Full LSS projects at Blount Island; numerous quick hits "above shop floor" at Albany Depot; VSA and projects prioritized at Barstow Depot.)
5.49		CG, MCLC	Have all commodities use the same best practice method to document and collect non-conformance information. Local prototypes to be replicated across other regions.	Local impact. Quality: Accurate and timely data suitable for quality trend analysis.	Non-Conformance Documentation and Collection Process (Blount Island)	0	1 GB 1 BB	Jan-07								Team has reviewed/captured common data elements for each Commodity. These elements have been applied to new COTS Quality Management System (H-QMS). Recommended / required changes to the software have been sent to the contractor. The revised software is due back at the end of October. At that time the team will reconvene.
5.53			Reduce rework associated with defective AAV cables and wiring harness on AAV Cables & Main Wiring Harness (MCB).	Local impact. Cost: Reduced repair costs achieved by reduction of rework.	Barstow	0	1 GB 2 BB	Jan-07	Mar-07		Aug-07	Oct-07				Event on AAV line - Barstow. Control Phase Review scheduled for 9-Oct-07.
5.57			Reduce repair cycle time on AN/TPS 59 radar.	Local impact. Cycle time: Improved readiness by reducing TAT to customer.	Barstow	0	1 GB 2 BB	Jan-07	Jun-07		Aug-07					Review conducted 27 Aug 2007. Due to 150 day cycle time, status will not change while proposed improvements are being monitored.
5.58		CG, MCLC	Reduce the procurement, receiving, issuing and cycle time for heraldic items.	Local impact. Eliminate duplication of tasks and customer complaints	Barstow	0	1 GB 2 BB	Nov-06	Mar-07			Apr-07		Oct-07	Est Oct-07	Project savings cannot be fully validated until Oct-07. Improvements implemented thus far have already shown a substantial decrease in time delays from 1st Qtr to 2nd Qtr. Reallocated personnel resources to the process to eliminate manpower deficiencies. Developed Excel spreadsheet on shared drive for all stake holders. In process of cataloging local stock numbers (LSN) into national stock numbers (NSN) catalogue.
5.59			Identify existing process constraints for Beneficial Suggestions, Product Quality Deficiency Reporting, and Supply Discrepancy Reporting; similarities in functions; and implement necessary phased in improvements.	Local impact. Decrease total cycle time for each program; improve customer satisfaction; staffing improvements	Albany	0	1 GB 2 BB	Mar-07								On Hold. Due to Reorganization BB suggested GB regroup and assign new project team members.
5.60			Ensure parts and material required for AAV assembly are available when needed. Kits are properly constructed, sequenced, and visually verifiable for completeness	Local impact. Decrease total cycle time for assembly.	Barstow	0	1 GB 2 BB	May-07	Jun-07			Sep-07				Event on AAV line - Barstow. In Validate Phase
5.61			Create well organized and safe operating environment for the AAV assembly line - station 2.	Local impact. Cost: Reduced repair costs achieved by reduction of rework	Barstow	0	1 GB 2 BB	May-07	Jun-07			Sep-07				Event on AAV line - Barstow. In Validate Phase
5.62		CG, MCLC	Identify required hull standard configuration. Develop procedure for assuring hulls are consistently received at the assembly line in a standard configuration.	Local impact. Decrease total cycle time for assembly.	Barstow	0	1 GB 2 BB	May-07	Jun-07			Sep-07				Event on AAV line - Barstow. In Validate Phase
5.63			Evaluate disassembly process to determine and document current state process. Create VSM and perform analysis to determine areas of opportunity for improvement.	Local impact. Cost: Reduced repair costs achieved by reduction of rework.	Barstow	0	1 GB 2 BB	May-07	Jun-07			Sep-07				Event on AAV line - Barstow. In Validate Phase

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TOTAL LIFE CYCLE MANAGEMENT PROJECTS

HICV Number	High Impact Core Value Stream	Sponsor	Objectives	Expected Benefits /Metric	Associated Projects	Investment '000 (Dollars only)	Black/Green Belt Assigned	Start Date	Define Tollgate Date	Measure Tollgate Date	Analyze Tollgate Date	Improve Tollgate Date	Control Tollgate Date	Verification Tollgate Date	Completed (Cumulative)	Status/Results
5	TOTAL LIFE CYCLE MANAGEMENT (GROUND) GroundSPEED	DC, I&L CG, MCLC	Improve the overall quality and speed in the sustainment of ground equipment to reduce repair cycles for critical equipment to the operating forces.	Impact direct support to warfighters, operational preparation for deployment, readiness and deployment.			50 GB 0 BB	8	8	1		5	7		51	Map HICVS. Identify performance gaps. Develop a plan to close performance gaps by using LSS. Prioritize list of specific projects. Train/assign proper mix of black/green belts to conduct projects. Charter, conduct, control projects. Replicate as appropriate. Report results. (Full LSS projects at Blount Island; numerous quick hits "above shop floor" at Albany Depot; VSA and projects prioritized at Barstow Depot.)
5.64		CG, MCLC	Continuation of LSS Project for FSDB to include weapons and controlled Cryptographic Items	Local impact. Decrease total cycle time for each program; improve customer satisfaction; staffing improvements.	Barstow	0	1 GB 1 BB	Apr-07								Supply Chain Management Event -- FSD Barstow. Toll Gate review delayed due to staff turnover. FSD Barstow has requested MCLC to assist in securing a Black Belt to mentor the project.
5.65			Revision of Quality Certification Record (QCR) and Storage Serviceability (SSS) Manual	Local impact. Quality: Accurate and timely data suitable for quality trend analysis.	Barstow	0	1 GB 1 BB	Mar-07								Supply Chain Management Event -- FSD Barstow. Toll Gate review delayed due to staff turnover. FSD Barstow has requested MCLC to assist in securing a Black Belt to mentor the project.
5.66			AAV Quality Defects/Rework	Local impact. Reduce rework associated with AAV.	Barstow	0	1 GB 1 BB	Apr-07	Jun-07							Project suspended. Due to implemented improvements, deficiencies and rework have reduced. Defects and rework will be monitored over the next 8 - 12 vehicles (2 - 3 months) to determine if project should be reinstated.
5.67		CG, MCLC	Requisitioning Process. Reduction in delays associated with part and material procurement.	Local impact. Cycle time. Improved readiness by reducing turn-around time to customer.	Barstow	0	1 GB 1 BB	Jun-07	Aug-07							Review conducted 27 Aug-07. Project still in Measure Phase - data collection ongoing.
5.68			Back Shop Support to AAV Assembly Line. Ensure timely and efficient support to the back shop.	Local impact. Cycle time. Improved readiness by reducing turn-around time to customer.	Barstow	0	1 GB 2 BB	Jun-07								Charter approved.
5.69			AAV Tubing Inspection. Ensure assembly line is 100% ready for installation	Local impact. Cycle time. Improved readiness by reducing turn-around time to customer.	Barstow	0	1 GB 2 BB	Jun-07	Aug-07							Review conducted 27 Aug-07. Project still in Measure Phase - data collection ongoing.
5.71		CG, MCLC	AAV Paint Rework. Reduction in paint-related defects.	Local Impact. Cost: Reduced repair costs achieved by reduction of rework.	Barstow	0	1 GB 2 BB	Pending								Project will not be started at this time. Conflict with pending Black Belt Project.
5.73			Code A Parts Verification. Create well organized and safe operating environment for the AAV assembly line Station 2.	Local impact. Decrease total cycle time for assembly.	Barstow	0	1 BB	May-07	Jun-07							
5.74		CG, MCLC	Lean 6S -- AAV Outside Areas. Evaluate disassembly process to determine and document current state process. Create VSM and perform analysis to determine areas of opportunity for improvement.	Local Impact. Identify and remove excess parts and material. Create a clean, organized, and safe work environment.	Barstow	0	1 BB	May-07	Jun-07			Sep-07				Event on AAV line - Barstow. In Validate Phase
5.75			Depot Level Maintenance Program (DLMP) Overarching Project Charter. Identify process improvements in the PPBES, planning, sourcing, and scheduling for DLMP.	Local impact. Reduce duplication of effort in supply and maintenance processes and the number of DLMP change requests.	Albany	0	2 BB 1 GB	May-07								Overarching project charter. Anticipated sub-projects will be identified and chartered as a result of value stream mapping.

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TOTAL LIFE CYCLE MANAGEMENT PROJECTS

HICV Number																	High Impact Core Value Stream	Sponsor	Objectives	Expected Benefits /Metric	Associated Projects	Investment '000 (Dollars only)	Black/Green Belt Assigned	Start Date	Define Tollgate Date	Measure Tollgate Date	Analyze Tollgate Date	Improve Tollgate Date	Control Tollgate Date	Verification Tollgate Date	Completed (Cumulative)	Status/Results
5	TOTAL LIFE CYCLE MANAGEMENT (GROUND) GroundSPEED		DC, I&L CG, MCLC	Improve the overall quality and speed in the sustainment of ground equipment to reduce repair cycles for critical equipment to the operating forces.	Impact direct support to warfighters, operational preparation for deployment, readiness and deployment.			50 GB 0 BB	8	8	1		5	7		51	Map HICVS. Identify performance gaps. Develop a plan to close performance gaps by using LSS. Prioritize list of specific projects. Train/assign proper mix of black/green belts to conduct projects. Charter, conduct, control projects. Replicate as appropriate. Report results. (Full LSS projects at Blount Island; numerous quick hits "above shop floor" at Albany Depot; VSA and projects prioritized at Barstow Depot.)															
	5.76	CG ,MCLC	Depot Level Maintenance Program Change Request Process. Determine and formalize business rules for change requests. Reduce number and frequency of changes. Reduce errors made by Planners and Supervisors.	Local impact. Reduce unnecessary Master Work Schedule Change Requests by 80% and rejects by 50%	Albany	0	1 BB 1 GB	Jun-07	Jul-07								Project was re-scoped and charter rewritten. Project is in Measure phase until the end of October.															
	5.77		Depot Level Maintenance Program Funding Document Process. Reduce the touch points involved in the funding process. Change the routing to reduce or eliminate rejections due to lack of funding. Reduce movement of hard copies through the system by automating the process.	Local impact. Reduce the number of steps from 10 to 5 and the number of days required to complete the funding document process from 9 days to 3 days.	Albany	0	1 BB	Jun-07	Jul-07	Aug-07							MSST is on-line but has not totally automated the funding document process at this point. As agreed to by the Champion and the Sponsors, no additional analysis will be performed until this process is fully automated in MSST.															
	5.78		MDSS-II Data Quality. To improve accuracy and timeliness of all 42 prime MDSS-II data fields.	Local impact. Time and Quality. Data quality improvement may lead to an ability to reallocate man-hours currently required to complete this task.	Blunt Island	0	1 GB 1 BB	Jun-07	Jul-07								A Contractor is assisting the Green Belt in translating the data collected from the ships into a more useable form so that the analyze phase can be completed.															
	5.79	CG, MCLC	Principal End Item (PEI) Stratification. To improve the accuracy of the PEI Stratification Module data so that the module can be utilized by Depot Level Maintenance Program (DLMP), Dynamic Equipment Repair Optimization (DERO), and future Readiness Reporting.	Local Impact. Time and Quality. Streamline the process and reduce rework.	Albany	0	1 GB 1 BB	Jul-07	Aug-07								The PEI Strat process will run starting 01 Oct 2007 and will take one month. Project will remain in the Measure phase until this process has been completed.															
	5.80	CG, MCLC	Dynamic Equipment Repair Optimization (DERO) Model. Reduce average time to run the DERO from 2 months to 1 day. Ensure output is understandable useable and valid. Develop Re-Accreditation Plan.	Local Impact. Time and Quality. Streamline the process and reduce rework.	Barstow	0	1 GB 1 BB	Sep-07									Charter has been signed. Project review conducted with Black Belt 18 Sep 2007.															
	5.81	CG, MCLC	AAV Disassembly Work Sequence. Evaluate and map standard work to determine and document critical path items. Develop status board to reflect new work sequences.	Local impact. Decrease total cycle time for disassembly.	Barstow	0	1 BB	Jul-07				Aug-07	Sep-07				Event on AAV line - Barstow. In Validate Phase															
	5.82	CG, MCLC	AAV Final Assembly Work Sequence. Analyze operations on post assembly VSM (items 1 - 14) to determine, identify, and eliminate non-value added activities. Develop status board to reflect new work sequences.	Local impact. Decrease total cycle time for final assembly.	Barstow	0	1 BB	Jul-07				Aug-07	Sep-07				Event on AAV line - Barstow. In Validate Phase															
	5.83	CG, MCLC	Lean 6S -- AAV Cable Shop. Establish a sustainable and continuously improving visual workplace in the Cable Shop.	Local Impact. Identify and remove excess parts and material. Create a clean, organized, and safe work environment.	Barstow	0	1 BB	Jul-07				Aug-07					Event on AAV line - Barstow															
	5.84	CG, MCLC	Review AAV Critical Chain. Review of critical chain to reflect changes due to process improvement efforts. Will provide an accurate critical chain to enable buffer management.	Local Impact. Time and Quality. Streamline the process and reduce rework.	Barstow	0	1 BB	Aug-07	Sep-07								Event on AAV line - Barstow. In Improve Phase															

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RESOURCE, ACQUISITION & IT PROJECTS

HICV Number	High Impact Core Value Stream	Sponsor	Objectives	Expected Benefits /Metric	Associated Projects	Investment '000 (Dollars only)	Black/Green Belt Assigned	Start Date	Define Tollgate Date	Measure Tollgate Date	Analyze Tollgate Date	Improve Tollgate Date	Control Tollgate Date	Verification Tollgate Date	Completed (Cumulative)	Status/Results
6	Resource Allocation	DC, P&R					6 GB					1			1	Map HICVS. Identify performance gaps. Develop a plan to close performance gaps by using LSS. Prioritize list of specific projects. Train/assign proper mix of black/green belts to conduct projects. Charter, conduct, control projects. Replicate as appropriate. Report results.
6.2		CO, HQBN Henderson Hall	To simplify and codify the process to procure supplies and services.	Local impact. Increased customer satisfaction through understanding of the process and reduction/ elimination of rework and cycle time.	6.1	0	1 BB 5 GB	Mar-07	Apr-07		May-07					Henderson Hall Supply functions project in Analyze Phase. Summer rotations will impact time line. BB being reassigned to this project beginning Oct-07.
7	ACQUISITION	CG, MCSC		Impact direct support to warfighters, operational preparation for deployment, readiness and deployment.			12 GB 3 BB		1						0	Map HICVS. Identify performance gaps. Develop a plan to close performance gaps by using LSS. Prioritize list of specific projects. Train/assign proper mix of black/green belts to conduct projects. Charter, conduct, control projects. Replicate as appropriate. Report results.
7.1 (UUNS - MCSC)		Executive Director, MCSC	Improving the process of responding to UUNS. Faster delivery of improvements to the field, better visibility of UUNS status to customer.	USMC-wide scope. Impact on product cycle time.		0	1 MBB 2 BB 2 GB	Jul-06 MCCDC Phase Ends	Jul-07	Aug - Oct-07	TBD	TBD		Est. Dec 07		This is an internal MCSC effort which relates to UUNS initiatives having been done by USMC HQ and MCCDC. Scope of effort is so broad and process sufficiently complex that this project shall act as parent for several other initiatives. Define Tollgate is scheduled for 28 Aug 07.
8	INFORMATION TECHNOLOGY	Director, C4		Impact direct support to warfighters, operational preparation for deployment, readiness and deployment.			2 GB 0 BB	1	1						0	Map HICVS. Identify performance gaps. Develop a plan to close performance gaps by using LSS. Prioritize list of specific projects. Train/assign proper mix of black/green belts to conduct projects. Charter, conduct, control projects. Replicate as appropriate. Report results.
8.1		Deputy Director, C4	Review IT Hardware Procurement process C4 swim lane activities and regional procurement coordination.	Enterprise impact. 1) reduce the time from user request to need fulfillment, 2) identify cost saving opportunities, 3) better comply with acquisition regulations, and 4) increase effectiveness in identifying available technology which best meets user requirements.		0	1 BB(T) 1 GB	Mar-07	Apr-07							Conducted USMC MBB facilitated Discovery Workshop 23-27 April at Navy Annex with MCSC, HQMC-C4 / CIO, Intel Dept, CMC Counsel, MCBE0, P&R. Scope of the initial project far more complex than initially envisioned: Mapped IT Procurement Value Stream to 13 Phases/ 90 - 120 days + lifecycle with focus on Procurement Request Approval Process 12 Steps / 150+ Activities / 30 days Refinement of workshop results in progress to continue detailed Value Stream Mapping and initiate 1st in a series of supporting projects on Request Approval Process
8.2		Deputy Director, C4 & CO, MCNOSC	Review of combined operational structure of MC Network Operational System Center (MCNOSC) & MCEITS Operational Capability (MOC)	Local impact. 1) identify value streams owned & operated by MCNOSC & MCEITS/MOC 2) consolidate under a single entity 3) define future state structure for single entity conceptual design 4) define measurement & metrics for future state value stream		0	1BB 1GB	Jun-07	Jul-07	Aug-07						As directed by MROC DM 22-2007 Meeting: MCEITS Capability Development Document (CDD), paragraph 3.b.2.(c) and 5.c. Charter signed. The MCNOSC project is following a DMADV process utilizing the Design for Six Sigma methodology - Define, Measure, Analyze, Design, Verify. The project is currently in the Design stage and expect Design tollgate in November.

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